



Announcement of Availability of the Automated Geospatial Watershed Assessment (AGWA) Tool

The Automated Geospatial Watershed Assessment (AGWA) tool has been developed under an interagency research agreement between the U.S. Environmental Protection Agency, Office of Research and Development and the U.S. Department of Agriculture, Agricultural Research Service. AGWA is an assessment tool that uses widely available data to run two hydrologic models (KINEROS and SWAT). It was designed to be easily applied by managers and scientists to evaluate likely outcomes of management scenarios and rank different areas in a watershed in terms of likely consequences to change. It also is designed to perform watershed analyses over large areas such as entire basins or to evaluate problem areas down to smaller scales such as subwatersheds which include small communities or rural areas.

AGWA runs on a standard personal computer with minimum system requirements of a 300 MHz processor, 128 MB RAM, 50 MB of storage, and ArcView GIS 3.X software. It requires GIS data that are easily acquired and available free of charge throughout the United States. The AGWA web sites (listed below) offer free download of the AGWA extension and associated data files and provide links to external data sources. Anyone with a modem can download the land cover, soils, and topographic data needed to run AGWA. Following download from the AGWA web sites, a user should be able to execute AGWA and obtain results.

AGWA has been tested in a wide variety of watersheds, ranging from the deserts of southeast Arizona to the forested hills of upstate New York; from the fast-growing Las Vegas Valley to the steep mountains of the Rockies in southern Colorado.

Additionally, AGWA has been successfully peer reviewed by both EPA and ARS protocols and is supported by technical support manuals and a quality assurance and quality control report available via the web sites.

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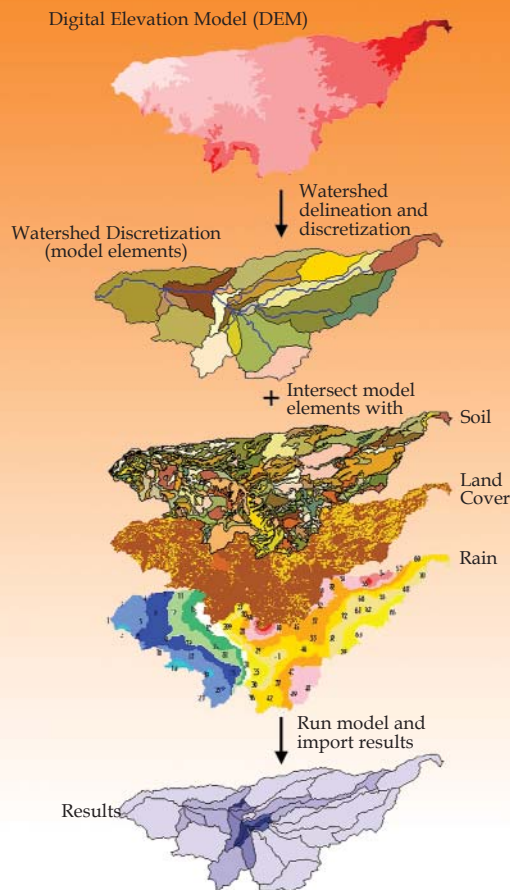
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Data layers used and tasks performed in a watershed assessment



Output results that can be displayed in AGWA

| KINEROS | SWAT |
|---|------------------------|
| Channel infiltration (m ³ /km) | Precipitation (mm) |
| Plane infiltration (mm) | ET (mm) |
| Runoff (mm or m ³) | Percolation (mm) |
| Sediment yield (kg) | Surface runoff (mm) |
| Peak flow (m ³ /s or mm/hr) | Transmission loss (mm) |
| Sediment discharge (kg/s) | Water yield (mm) |
| Channel scour (mm) | Sediment (t/ha) |